

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-7 (Canceled).

Claim 8 (Original): A production method of a TiAl based alloy comprising:

a step for holding a TiAl based alloy material containing Al at least in an amount of from 43 to 48 atomic % in an equilibrium temperature range of an α phase; and

a step for subjecting the TiAl based alloy material held at that temperature to high-speed plastic working, while cooling the material to a predetermined working terminal temperature.

Claim 9 (Original): A production method of a TiAl based alloy according to claim 8, wherein said holding temperature is from 1230°C to 1400°C.

Claim 10 (Original): A production method of a TiAl based alloy according to claim 8, wherein said working terminal temperature is 1200°C.

Claim 11 (Original): A production method of a TiAl based alloy according to claim 8, wherein said TiAl based alloy material is held at said holding temperature with the material being covered with a thermal insulation material, and then said TiAl based alloy is subjected to high-speed plastic working, together with said thermal insulation material.

Claim 12 (Original): A production method of a TiAl based alloy according to claim 8, wherein a forging method is used as said high-speed plastic working.

Claim 13 (Original): A production method of a TiAl based alloy according to claim 8, wherein said high-speed plastic working is performed at a cooling speed of from 50 to 700°C/min.

Claim 14 (Original): A production method of a TiAl based alloy comprising:
a step for holding a TiAl based alloy material containing Al at least in an amount of from 38 to 44 atomic % in an equilibrium temperature range of a ($\alpha + \beta$) phase; and a step for

subjecting the TiAl based alloy material held at said temperature to high-speed plastic working, while cooling said material to a predetermined working terminal temperature.

Claim 15 (Original): A production method of a TiAl based alloy according to claim 14, wherein said holding temperature is from 1150°C to 1300°C.

Claim 16 (Original): A production method of a TiAl based alloy according to claim 14, wherein said working terminal temperature is 1000°C.

Claim 17 (Original): A production method of a TiAl based alloy according to claim 14, wherein a forging method is used as said high-speed plastic working.

Claim 18 (Original): A production method of a TiAl based alloy according to claim 14, wherein said high-speed plastic working is performed at a cooling speed of from 50 to 700°C/min.

Claim 19 (Canceled).